CONTENTS

VOLUME 4 NUMBER 1 **JANUARY/FEBRUARY 1989**

AMNESTIC ACTION OF 2-DEOXY-D-GALACTOSE IS NOT RELATED TO A URIDYLATE TRAPPING EFFECT
S. Schmidt, P. Richter, S. Staak, G. Grecksch, N. Popov, R. Jork and H. Matthies 1

EFFECT OF DIFFERENT CONCENTRATIONS OF PHORBOL ESTER ON TETANUS-INDUCED LONG-TERM POTENTIATION IN THE RAT HIPPOCAMPUS
J. G. G. Borst, B. P. C. Melchers and F. H. Lopes da Silva 11

FURTHER STUDIES ON THE PATTERNS OF SENILE PLAQUES IN SENILE DEMENTIA OF THE ALZHEIMER TYPE (SDAT) WITH A HYPOTHESIS ON THE COLONIZATION OF THE CORTEX
R. A. Armstrong, D. Myers and C. U. M. Smith 17

POTASSIUM INCREASES cGMP IN GLIAL CELLS IN RAT HIPPOCAMPUS SLICES: A COMBINED BIOCHEMICAL AND IMMUNOCYTOCHEMICAL STUDY
J. de Vente, J. J. Wietsma, J. G. J. M. Bol, J. Schipper, S. K. Malhotra and H. W. M. Steinbusch 25

A ^{31}P NMR STUDY OF THE NGF ACTION ON PC12 CELL PHOSPHOLIPID METABOLISM
A. Miccheli, A. M. Salvatore, M. Delfini, F. Conti and P. Calissano 33

STRESS-LIKE BICUCULLINE AND DMCM REDUCES THE BASAL $^{36}Cl^-$ UPTAKE IN THE RAT CORTICAL MEMBRANE VESICLES, AN EFFECT REVERSED BY GABA
M. Serra, A. Concas, T. Atsoggiu and G. Biggio 41

A COMPARISON OF THE POSTNATAL CHANGES IN ASPARTATE AND GLUTAMATE LEVELS IN CEREBRAL CORTEX OF THE RAT
S. L. Erdö and J. R. Wolff 51

CIRCADIAN AND ESTROUS CYCLE-DEPENDENT ACETYLCHOLINE RHYTHMS IN THE MEDIAN EMINENCE OF THE RAT
Y. Egozi, Y. Kloog and M. Sokolovsky 57

VOLUME 4 NUMBER 2 **MARCH/APRIL 1989**

THE EFFECT OF TITYUSTOXIN ON THE RELEASE OF [^{3}H] GLYCINE FROM RAT BRAIN CORTICAL SLICES
M. G. M. Zaganelli, M. V. Gomez and A. M. Ribeiro 63

LONG-TERM POTENTIATION PREFERENTIALLY ENHANCES N-METHYL-D-ASPARTATE RECEPTOR MEDIATED DENDRITIC Ca^{2+} INFLUX IN CAl REGION OF RAT HIPPOCAMPAL SLICES
P. K. Stanton, H. Walther and U. Heinemann 73

EFFECTS OF CASTRATION AND TESTOSTERONE REPLACEMENT ON THE CONCENTRATION OF β-ENDORPHIN-IMMUNOREACTIVITY IN BRAIN AND PITUITARY OF MALE RATS
C. G. J. Sweep, N. Stuurman and V. M. Wiegant 81

REDUCTION OF DISULFIDE BONDS ACTIVATES NMDA-SENSITIVE GLUTAMATE RECEPTORS IN PRIMARY CULTURES OF CEREBELLAR GRANULE CELLS
J. W. Lazarewicz, J. T. Wroblewski, M. E. Palmer and E. Costa 91

EFFECTS OF p-CHLOROPHENYLALANINE (p-CPA) ON BRAIN SEROTONIN (5-HT) AND ULTRASONIC CALLING DURING SEXUAL BEHAVIOR IN RATS
R. Cagiano, M. A. De Salvia, E. Tortella, G. Sales, N. Brunello, G. Racagni and V. Cuomo 99

BENEFICIAL EFFECTS OF ACTH4-10 ON PILOCARPIN INDUCED SEIZURES
A. Wamil, G. Croiset, Z. Kleinrok and D. De Wied 109

ALPHA-GAMMA CO-SILENCE IN HUMAN WRIST FLEXOR MUSCLES DURING SLOW VISUALLY-GUIDED PASSIVE WRIST FLEXION
E. L. Logigian, A. W. Wiegner and R. R. Young 117

VOLUME 4 NUMBER 3 **MAY/JUNE 1989**

NEURONAL MECHANISMS OF LEARNING AND MEMORY: CHALLENGES AND PROMISES
S. Rose 125

LACTOGRAPHY: A NOVEL TECHNIQUE TO MONITOR BRAIN ENERGY METABOLISM IN PHYSIOLOGY AND PATHOLOGY
J. Korf 129

SELF-STIMULATION IN SNAILS
P. M. Balaban and R. Chase 139

L-α-METHYLDOPA TRANSPORT ACROSS BOVINE BRAIN MICROVESSEL ENDOTHELIAL CELL MONOLAYERS: A MODEL OF THE BLOOD-BRAIN BARRIER
J. E. Chastain, Jr. and R. T. Borchardt 147

NEUROHISTOCHEMICAL STUDIES ON STRIATAL LESIONS INDUCED BY TRANSIENT FOREBRAIN ISCHEMIA. EVIDENCE FOR PROTECTIVE EFFECTS OF THE GANGLIOSIDE ANALOGUE AGF2
M. Zoli, R. Grimaldi, L. F. Agnati, I. Zini, E. Merlo Pich, G. Toffano and K. Fuxe 153

EFFECT OF CYTOSINE ARABINOSIDE ON NEURONAL SURVIVAL, NEURITE OUTGROWTH AND NON-NEURONAL CELL PROLIFERATION WHEN CEREBRAL EXPLANT SIZE IS STANDARDISED
D. E. Oorschot and D. G. Jones 159

IMMUNOCYTOCHEMISTRY OF PUTATIVE CRF RECEPTORS IN RAT FOREBRAIN USING A CRF ANTI-IDIOTYPIC ANTIBODY
D. T. Piekut and K. M. Knigge 167

THE EFFECT OF DIFFERENT TYPES OF ANAESTHESIA ON RAT EYE PLEXUS AND PERIPHERAL PLASMA VASOPRESSIN LEVELS
J. A. Ten Haaf, T. B. Van Wimersma Greidanus and D. De Wied 175

VOLUME CONTENTS iii

AUTHOR INDEX v

KEY WORD INDEX vii